

FIG. 1

(a) Character Tokens:

S	100000
P	010000
O	001000
T	000100
E	000010
R	000001

(b) Tensoring Order:

The diagram illustrates the tensoring order for the sequence S, P, O, T, T, E, R. Arrows indicate the sequence of tensor products: 1 (S to P), 2 (P to O), 3 (O to T), 4 (T to T), 5 (T to E), and 6 (E to R).

[illegible]

(d) Pattern for 'Spotter': 000000100000010000001100000100000010

(e) Pattern for 'Spoter': 000000100000010000001000000100000010

(f) Pattern for 'Protest': 0000100000000000001101000000100010000

FIG. 2

2 / 5

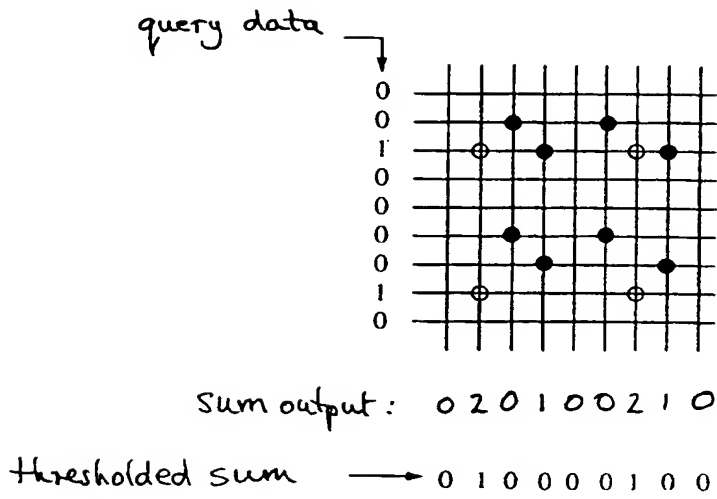


FIG. 3

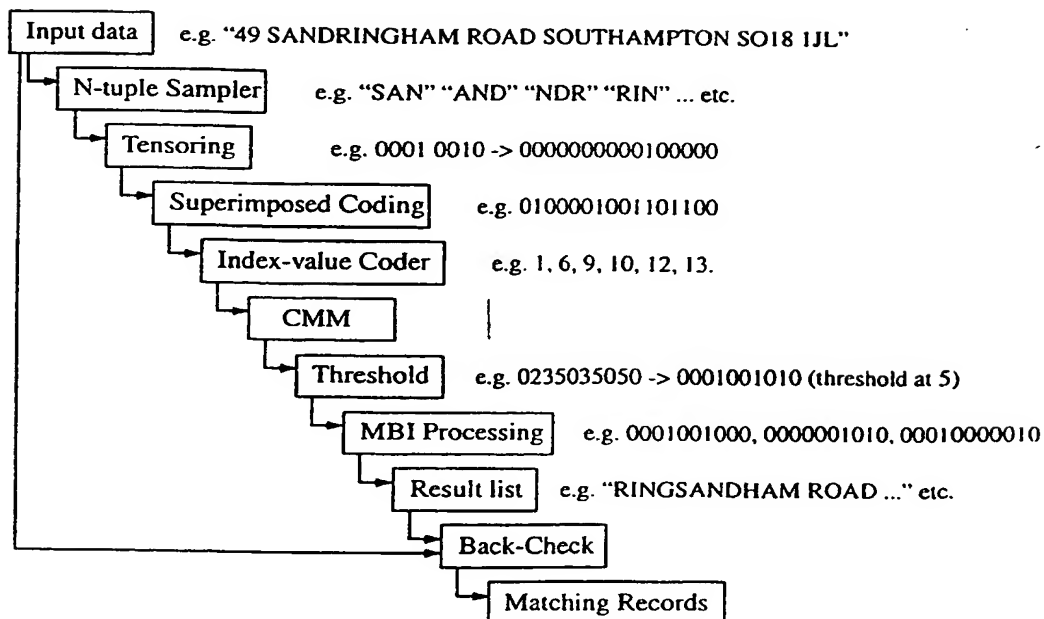
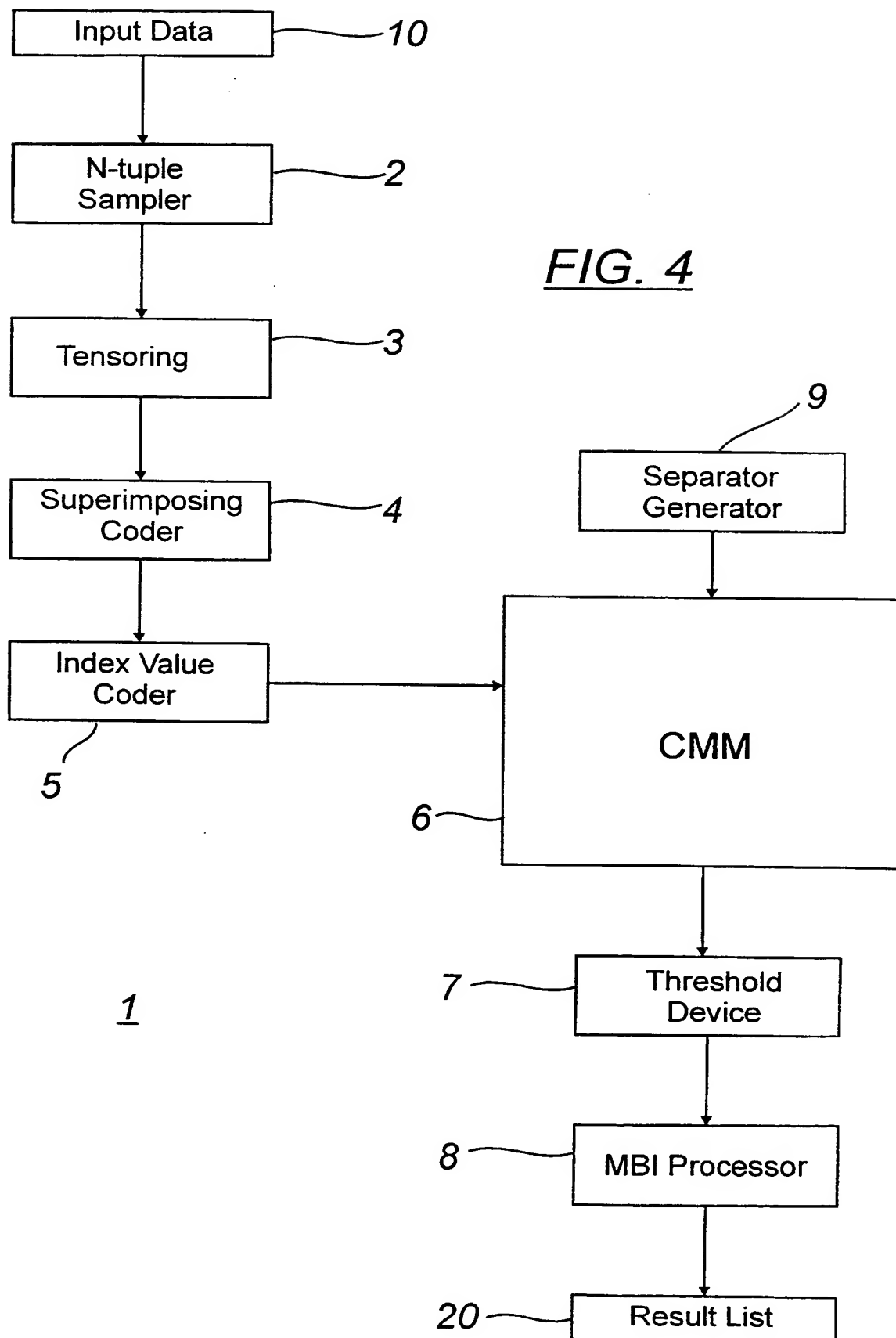


FIG. 5



CMM Line	00010000	00000000	10000000
Word Array	00010000	00000000	10000000

FIG. 6a

CMM Line	00010000	00000000	10000000
Bit Set Position	3	16	

FIG. 6b

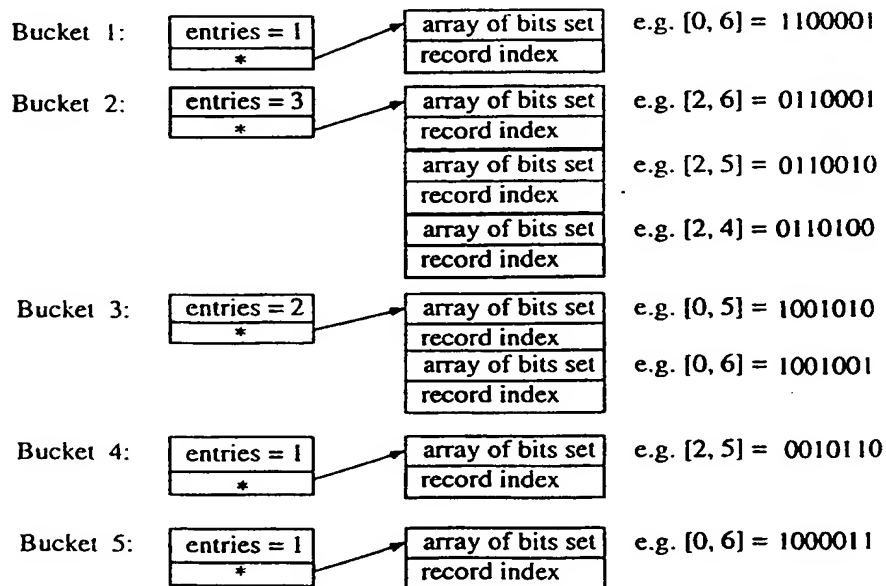
CMM Width (Bits)	Usage Threshold (Separators)	Pure CMM (Mb)	Compressed CMM (Mb)
1000	31	2.38	1.61
2000	62	4.77	1.85
5000	156	11.92	2.57
10000	312	23.84	3.76

FIG. 7

Width of CMM (bits)	Memory required (Mb)	Total Number of Memories
5000	305.45	553
10000	292.31	277
15000	291.38	185
20000	292.48	139
25000	294.13	111
30000	295.63	93
35000	297.21	79
40000	298.88	70

FIG. 8

Width of CMM (bits)	Memory Requirement Using Compression (Mb)	Memory Requirement Using Binary CMM (Mb)	Relative Memory Saving
5000	305.45	1770.17	5.8
10000	292.31	2229.29	7.6
15000	291.38	2498.57	8.6
20000	292.48	2689.14	9.2
25000	294.13	2832.08	9.6
30000	295.63	2945.26	10
35000	297.21	3036.78	10.2
40000	298.88	3131.58	10.5

FIG. 9FIG. 10